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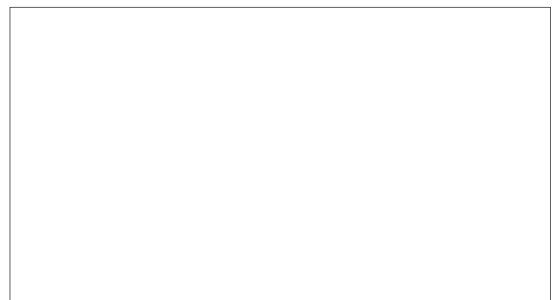
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RD-54

Task 5

Progress Report #9 - Phase II, Model "C"

Objective: To produce four (4) developmental models of a miniature IR voice communicator, incorporating certain modifications resulting from evaluation of the design approval models shipped June 29, 1956.

A detailed breakdown of the changes being incorporated in these four units was given in Report No. 8 dated December 13, 1956.

Data: All parts, mechanical, electrical, and optical have been received with the single exception of the Midwestern galvanometer. We were advised these were shipped January 18th.

All four units have been assembled and tested optically and electrically. The necessary metal working to obtain collimation has been done using a dummy galvanometer.

A slightly different routine has been followed in the building of these four units. The trial assemblies and necessary rework has been done with all components in the raw or natural state. The units have been completely disassembled and all parts sent out for anodizing, black nickel, iridizing, passivating, etc. Upon receipt of the processed parts, final assembly will be made. It is hoped that this procedure will result in a better finished final product, with a minimum of marring due to handling.

The removable lens cap mentioned in the last report has been retained, however, the telescopic sight could not be made to have an adequate exit pupil with commercially available lenses. Experiments with nonoptical peep sights showed results much superior to the open sights formerly used. A peep sight with fully adjustable rear peep position has been incorporated into the lens cap.

A brief instruction manual has been written and is being finalized by our publications group.

The Technical Manual is about 60% complete. The set of formal manufacturing drawings are 90% completed. The Final Report is now being compiled.

Work program for next interval:

1. Final assembly of the equipments upon completion of the parts finishing.
2. Laboratory and field testing of the units.
3. Completion of the Technical Manual and Final Reports.
4. Completion of the Formal Manufacturers Drawings.

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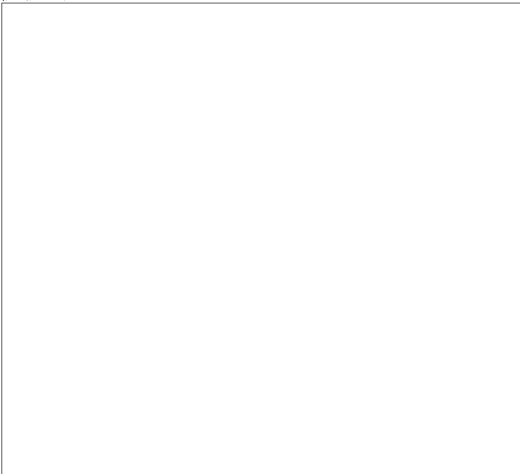
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